IN THE CLAIMS

Kindly amend claims 1, 3, 4, 7, 9, 12, 13, 15, 16, 19, 21-23, 27-29, 31 and 32 as follows.

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A device for scheduling transmissions in an interference-limited network, wherein the device is adapted to:

send transmission test signals to one or more terminal units; and

prioritize transmission request signals from the one or more terminal units based on achievable data rates, each rate associated with one of the test signals.

2. (Original) The device as in claim 1 wherein the device is further adapted to assign a highest priority to a transmission request signal associated with a highest achievable data rate.

3. (Currently Amended) The device as in claim 2 wherein the device is further adapted to authorize a terminal unit, of the one or more terminal units, associated with the highest achievable data rate to send a transmission.

4. (Currently Amended) The device as in claim 1 wherein the device is further adapted to authorize a terminal unit, of the one or more terminal units, associated with a prioritized transmission request signal to send a transmission.

5. (Original) The device as in claim 1 wherein the device comprises a bandwidth allocation unit.

6. (Original) The device as in claim 1 wherein the device comprises a multiplexer.

7. (Currently Amended) The device as in claim 1, wherein the device is further adapted to periodically poll a data rate associated with a terminal unit, of the one or more terminal units, within the network.

8. (Original) The device as in claim 7 wherein the device is further adapted to adjust a priority associated with the terminal unit based on the polled data rate.

9. (Currently Amended) The device as in claim 1 wherein the device is further adapted to prioritize transmission test signals from the one or more terminal units based on achievable data rates.

10. (Original) The device as in claim 9 wherein the device is further adapted to assign a highest priority to a transmission test signal associated with a highest achievable data rate.

11. (Original) The device as in claim 10 wherein the device is further adapted to authorize a transmission to a terminal unit associated with the highest achievable data rate.

12. (Currently Amended) The device as in claim 9 wherein the device is further adapted to authorize a transmission to a terminal unit, of the one or more terminal units, associated with a prioritized transmission test signal.

13. (Currently Amended) A device for scheduling transmissions in an interference-limited network, wherein the device is adapted to:

send transmission test signals to one or more terminal units; and

prioritize the transmission test signals based on achievable data rates, each rate associated with one of the test signals.

14. (Original) The device as in claim 13, wherein the device is further adapted to assign a highest priority to a transmission test signal associated with a highest achievable data rate.

15. (Currently Amended) The device as in claim 14 wherein the device is further adapted to authorize a transmission to a terminal unit, of the one or more terminal units, associated with the highest achievable data rate.

16. (Currently Amended) The device as in claim 13 wherein the device is further adapted to authorize a transmission to a terminal unit, of the one or more terminal units, associated with a prioritized transmission test signal.

17. (Original) The device as in claim 13 wherein the device comprises a bandwidth allocation unit.

18. (Original) The device as in claim 13 wherein the device comprises a multiplexer.

19. (Currently Amended) A method for scheduling transmissions in an interference-limited network comprising:

sending transmission test signals to one or more terminal units; and

prioritizing transmission request signals from the one or more terminal units based on achievable data rates, each rate associated with one of the test signals.

20. (Original) The method as in claim 19 further comprising assigning a highest priority to a transmission request signal associated with a highest achievable data rate.

21. (Currently Amended) The method as in claim 20 further comprising authorizing a terminal unit, of the one or more terminal units, associated with the highest achievable data rate to send a transmission.

22. (Currently Amended) The method as in claim 19 further comprising authorizing a terminal unit, of the one or more terminal units, associated with a prioritized transmission request signal to send a transmission.

23. (Currently Amended) The method as in claim 19 further comprising periodically polling a data rate associated with a terminal unit, of the one or more terminal units, within the network.

24. (Original) The method as in claim 23 further comprising adjusting a priority associated with the terminal unit based on the polled data rate.

25. (Original) The method as in claim 19 further comprising prioritizing transmission test signals based on achievable data rates.

26. (Original) The method as in claim 25 further comprising assigning a highest priority to a transmission test signal associated with a highest achievable data rate.

27. (Currently Amended) The method as in claim 26 further comprising authorizing a transmission to a terminal unit, of the one or more terminal units, associated with the highest achievable data rate.

28. (Currently Amended) The method as in claim 25 further comprising authorizing a transmission to a terminal unit, of the one or more terminal units, associated with a prioritized transmission test signal.

29. (Currently Amended) A method for scheduling transmissions in an interference-limited network comprising:

sending transmission test signals to one or more terminal units; and

prioritizing the transmission test signals based on achievable data rates, each rate associated with one of the test signals.

30. (Original) The method as in claim 29 further comprising assigning a highest priority to a transmission test signal associated with a highest achievable data rate.

31. (Currently Amended) The method as in claim 30 further comprising authorizing a transmission to a terminal unit, of the one or more terminal units, associated with the highest achievable data rate.

32. (Currently Amended) The method as in claim 29 further comprising authorizing a transmission to a terminal unit, of the one or more terminal units, associated with a prioritized transmission test signal.